# Work Order ID 68640

*Tuesday, April 19, 2011 12:48:09 PM*



**Item ID:** D412-742-013 **Accept** **Setup Start**

**Revision ID:**

**Item Name:** Float Skidtube Installation **Stop**

**Start Date:** 4/19/2011 **Start Qty:** 1.00 **Cust Item ID:**

**Required Date:** 5/20/2011 **Req'd Qty:** 1.00 **Customer:**

**Reference:**

**Approvals:** **Process Plan:** MWC **Date:** 11-04-19 **Tooling:** _____ **Date:** _____ **Run Start**

**QC:** _____ **Date:** _____ **SPC (Y/N):** _____ **Date:** _____ **Stop**

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|---|---|---|---|---|---|---|---|---|---|
| **Draw Nbr** | **Revision Nbr** | | | | | | | | |
| IIN D412-742 | D | | | | | | | | |
| 100 | DOCUMENT CONTROL | 0.00 | | | | | | | |
| DC | **Memo** | 0.00 | | | | | | | |
| Document Control | Photocopy bluefile and create labels per PPP D412-742-013 | | CHG006 | | | | | | |
| 110 | Pick Kit | 0.00 | | | | | | | |
| Packaging | **Memo** | 0.00 | | | | | | | |
| Packaging | | | | | | | | | |
| 120 | QC4- 100% Inspect kits for completeness | 0.00 | | | | | | | |
| QC | **Memo** | 0.00 | | | | | | | |
| Quality Control | | | | | | | | | |

B69243

Dart Aerospace Ltd

| W/O: | | WORK ORDER CHANGES | | | | | |
|---|---|---|---|---|---|---|---|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

**Part No:** _____ **PAR #:** _____ **Fault Category:** _____ **NCR:** Yes No **DQA:** _____ **Date:** _____

**Resolution:** _____ **Disposition:** _____ **QA: N/C Closed:** _____ **Date:** _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

**NOTE:** Date & initial all entries

H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

# Work Order ID 68640

*Tuesday, April 19, 2011 12:48:09 PM*



**Item ID:** D412-742-013 **Accept** **Setup Start** **Stop**

**Revision ID:**

**Item Name:** Float Skidtube Installation

**Start Date:** 4/19/2011 **Start Qty:** 1.00 **Cust Item ID:**

**Required Date:** 5/20/2011 **Req'd Qty:** 1.00 **Customer:**

**Reference:**

**Run Start** **Stop**

**Approvals:** **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

**QC:** _____ **Date:** _____ **SPC (Y/N):** _____ **Date:** _____

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|---|---|---|---|---|---|---|---|---|---|
| 130 | | 0.00 | | | | | | | |
| Packaging | Packaging | | | | | | | | |
| Packaging | **Memo** | 0.00 | | | | | | | |
| Packaging | Identify and pack for shipping as per PPP D412-742-013<br>Location:_____ Rack H | | | | | | | | |
| 140 | QC21- Final Inspection - Work Order Release | 0.00 | | | | | | | |
| QC | **Memo** | 0.00 | | | | | | | |
| Quality Control | | | | | | | | | |

11/4/16

11/6/20

11-06-17

Dart Aerospace Ltd

| W/O: | | WORK ORDER CHANGES | | | | | |
|---|---|---|---|---|---|---|---|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

**Part No:** _____ **PAR #:** _____ **Fault Category:** _____ **NCR:** Yes No **DQA:** _____ **Date:** _____

**Resolution:** _____ **Disposition:** _____ **QA: N/C Closed:** _____ **Date:** _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

**NOTE:** Date & initial all entries

H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

# Picklist Print

*Tuesday, April 19, 2011 12:48:03 PM*



**Work Order ID:** 68640

**Parent Item:** D412-742-013

**Parent Item Name:** Float Skidtube Installation

**Start Date:** 4/19/2011 **Required Date:** 5/20/2011

**Start Qty:** 1.00 **Required Qty:** 1.00

**Comments:** IPP Rev: A□05.10.13□New Issue□ KJ/JLM□
IPP Rev:B 06-06-08 As per DSI9336 JLM IPP RevC 07-12-03 ECN 1072 DD verified by:JLM
IPP Rev:D 08-09-08 ecn 08-510 DD verified by:EC
IPP Rev:E 09-01-23 as per DSI9441 DD verified by:EC IPP RevF: add AN4C7A DD 10.01.13 verified by:EC

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Qty per Kit | Total Qty | Qty Issued | Date Issued | Status |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AN4C7A<br>Bolt | | Purchased | No | | | 110 | Each | 427.0000 | 4 | 4 ✓ | JB | | |
| | | | | **Location** | | **Loc Qty** | | **Loc Code** | | | | | |
| | | | | ST356 | | 427 | | | | | | | |
| | | | | | 109147 | 427 | | | | 109147 | | | |
| D412-742-043<br>Replacement Float Skidtube | | Manufactured | No | | | 110 | Each | 0.0000 | 1 | 1<br>69243 | | | |
| D2571<br>Saddle, Fwd Out 205 | | Manufactured | No | | | 110 | Each | 8.0000 | 1 | 1 ✓<br>67664 JB | | | |
| | | | | **Location** | | **Loc Qty** | | **Loc Code** | | | | | |
| | | | | ST433 | | 8 | | | | | | | |
| | | | | | 63499 | 8 | | | | | | | |
| D2572<br>Saddle, Fwd In 205 | | Manufactured | No | | | 110 | Each | 5.0000 | 1 | 1 ✓<br>67663 JB 11/06/08 | | | |
| | | | | **Location** | | **Loc Qty** | | **Loc Code** | | | | | |
| | | | | ST433 | | 5 | | | | | | | |
| | | | | | 63500 | 5 | | | | | | | |

Dart Aerospace Ltd

| W/O: | | WORK ORDER CHANGES | | | | | |
|---|---|---|---|---|---|---|---|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

**Part No:** _____ **PAR #:** _____ **Fault Category:** _____ **NCR:** Yes No **DQA:** _____ **Date:** _____

**Resolution:** _____ **Disposition:** _____ **QA: N/C Closed:** _____ **Date:** _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

**NOTE:** Date & initial all entries

H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

# Picklist Print

*Tuesday, April 19, 2011 12:48:03 PM*

**Work Order ID:** 68640

**Parent Item:** D412-742-013

**Parent Item Name:** Float Skidtube Installation

**Start Date:** 4/19/2011 **Required Date:** 5/20/2011

**Start Qty:** 1.00 **Required Qty:** 1.00

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| D2573 Saddle, Aft Out 205 | Manufactured | No | 110 | Each | 4.0000 | 1 | 1 | 69697 |

| Location | Loc Qty | Loc Code |
|---|---|---|
| ST434 | 4 | |
| 63501 | 4 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| D2574 Saddle, Aft In 205 | Manufactured | No | 110 | Each | 4.0000 | 1 | 1 | 69695 |

| Location | Loc Qty | Loc Code |
|---|---|---|
| ST434 | 4 | |
| 63502 | 4 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| D2876 Saddle Spacer | Manufactured | No | 110 | Each | 92.0000 | 2 | 2 ✓ | JB |

| Location | Loc Qty | Loc Code |
|---|---|---|
| ST025 | 92 | |
| 66849 | 44 | |
| ST026 | 48 | |
| 68282 | 48 | 68282 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| D2877 Saddle Spacer | Manufactured | No | 110 | Each | 111.0000 | 2 | 2 ✓ | JB 11/06/08 |

| Location | Loc Qty | Loc Code |
|---|---|---|
| ST025 | 111 | |
| 63325 | 11 | |
| 66843 | 40 | |
| 68283 | 60 | 68283 |

Dart Aerospace Ltd

| W/O: | | WORK ORDER CHANGES | | | | | |
|---|---|---|---|---|---|---|---|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

**Part No:** _____ **PAR #:** _____ **Fault Category:** _____ **NCR:** Yes No **DQA:** _____ **Date:** _____

**Resolution:** _____ **Disposition:** _____ **QA: N/C Closed:** _____ **Date:** _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

**NOTE:** Date & initial all entries

H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

# Picklist Print

*Tuesday, April 19, 2011 12:48:03 PM*

**Work Order ID:** 68640

**Parent Item:** D412-742-013

**Parent Item Name:** Float Skidtube Installation

**Start Date:** 4/19/2011 **Required Date:** 5/20/2011

**Start Qty:** 1.00 **Required Qty:** 1.00

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| D3403-1 Bushing | Manufactured | No | | 110 | Each | 40.0000 | 16 | 16 ✓ | 69508 JB |

| Location | Loc Qty | Loc Code |
|---|---|---|
| ST052 | 40 | |
| 63316 | 40 | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| D2747 Set Screw | Manufactured | No | | 110 | Each | 110.0000 | 4 | 4 ✓ | JB |

| Location | Loc Qty | Loc Code |
|---|---|---|
| ST021 | 110 | |
| 62085 | 10 | |
| 64276 | 100 | 64276 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| D3533-1 Set Screw | Manufactured | No | | 110 | Each | 126.0000 | 2 | 2 ✓ | JB 11/06/08 |

| Location | Loc Qty | Loc Code |
|---|---|---|
| ST066 | 126 | |
| 66138 | 26 | |
| 67583 | 100 | 67583 |

Dart Aerospace Ltd

| W/O: | | WORK ORDER CHANGES | | | | | |
|---|---|---|---|---|---|---|---|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

**Part No:** _____ **PAR #:** _____ **Fault Category:** _____ **NCR:** Yes No **DQA:** _____ **Date:** _____

**Resolution:** _____ **Disposition:** _____ **QA: N/C Closed:** _____ **Date:** _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

**NOTE:** Date & initial all entries

H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

# Picklist Print

*Tuesday, April 19, 2011 12:48:03 PM*

**Work Order ID:** 68640

**Parent Item:** D412-742-013

**Parent Item Name:** Float Skidtube Installation

**Start Date:** 4/19/2011 **Required Date:** 5/20/2011

**Start Qty:** 1.00 **Required Qty:** 1.00

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| AN4C6A<br>Bolt | Purchased | No | 110 | Each | 344.0000 | 16 | 16 ✓ gB | |

| Location | Loc Qty | Loc Code |
|---|---|---|
| FG | 4 | |
| 103344 | 4 | |
| ST306 | 50 | |
| 117313 | 50 | |
| ST356 | 290 | |
| 115016 | 14 | |
| 116003 | 126 | |
| 116400 | 50 | |
| 116704 | 100 | 116704 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| AN4C52A<br>BOLT | Purchased | No | 110 | Each | 104.0000 | 8 | 8 ✓ 117619 gB | |

| Location | Loc Qty | Loc Code |
|---|---|---|
| ST361 | 104 | |
| 113121 | 4 | |
| 114784 | 40 | |
| 117163 | 60 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| AN6C12A<br>BOLT | Purchased | No | 110 | Each | 74.0000 | 8 | 8 ✓ 117688 gB 11/06/08 | |

| Location | Loc Qty | Loc Code |
|---|---|---|
| ST342 | 74 | |
| 114442 | 24 | |
| 116022 | 30 | |
| 117366 | 20 | |

Dart Aerospace Ltd

| W/O: | | WORK ORDER CHANGES | | | | | |
|---|---|---|---|---|---|---|---|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

**Part No:** _____ **PAR #:** _____ **Fault Category:** _____ **NCR:** Yes No **DQA:** _____ **Date:** _____

**Resolution:** _____ **Disposition:** _____ **QA: N/C Closed:** _____ **Date:** _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

**NOTE:** Date & initial all entries

H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

# Picklist Print

*Tuesday, April 19, 2011 12:48:03 PM*

**Work Order ID:** 68640

**Parent Item:** D412-742-013

**Parent Item Name:** Float Skidtube Installation

**Start Date:** 4/19/2011 **Required Date:** 5/20/2011

**Start Qty:** 1.00 **Required Qty:** 1.00

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| D3672-3<br>Phenolic Washer | Manufactured | No | 110 | Each | 967.0000 | 32 | 32 | JB |

| Location | Loc Qty | Loc Code |
|---|---|---|
| ST074 | 967 | |
| 64176 | 967 | 64176 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| AN960C416L NAS1149C0432R<br>WASHER | Purchased | No | 110 | Each | 8.0000 | 32 | 32 | 116900 JB |

| Location | Loc Qty | Loc Code |
|---|---|---|
| ST350 | 8 | |
| 112828 | 8 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| D3672-9<br>Phenolic Washer | Manufactured | No | 110 | Each | 440.0000 | 8 | 8 | JB |

| Location | Loc Qty | Loc Code |
|---|---|---|
| ST074 | 440 | |
| 35523 | 440 | 35523 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| AN960C616L<br>WASHER | Purchased | No | 110 | Each | 100.0000 | 8 | 8 | JB |

| Location | Loc Qty | Loc Code |
|---|---|---|
| ST347 | 100 | |
| 113064 | 100 | 113064 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| D3672-11<br>Phenolic Washer | Manufactured | No | 110 | Each | 635.0000 | 16 | 16 | JB 11/06/08 |

| Location | Loc Qty | Loc Code |
|---|---|---|
| ST074 | 635 | |
| 58046 | 635 | 58046 |

Dart Aerospace Ltd

| W/O: | | WORK ORDER CHANGES | | | | | |
|---|---|---|---|---|---|---|---|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

**Part No:** _____ **PAR #:** _____ **Fault Category:** _____ **NCR:** Yes No **DQA:** _____ **Date:** _____

**Resolution:** _____ **Disposition:** _____ **QA: N/C Closed:** _____ **Date:** _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

**NOTE:** Date & initial all entries

H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

# Picklist Print

*Tuesday, April 19, 2011 12:48:03 PM*

**Work Order ID:** 68640

**Parent Item:** D412-742-013

**Parent Item Name:** Float Skidtube Installation

**Start Date:** 4/19/2011 **Required Date:** 5/20/2011

**Start Qty:** 1.00 **Required Qty:** 1.00

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| MS21043-4 Nut | Purchased | No | 110 | Each | 1,180.000 | 29 | 29 | 115936x11 114784x18 JB |

| Location | Loc Qty | Loc Code |
|---|---|---|
| FG | 40 | |
| 104603 | 40 | |
| ST300 | 600 | |
| 117423 | 600 | |
| ST301 | 540 | |
| 114523 | 3 | |
| 116188 | 237 | |
| 116549 | 300 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| D3403-3 Bushing | Manufactured | No | 110 | Each | 50.0000 | 8 | 8 ✓ | 68949 JB |

| Location | Loc Qty | Loc Code |
|---|---|---|
| ST052 | 50 | |
| 59598 | 9 | |
| 62240 | 1 | |
| 66846 | 40 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| D3405-041 Lug Assembly | Manufactured | No | 110 | Each | 11.0000 | 1 | 1 ✓ | 68346 JB 11/06/08 |

| Location | Loc Qty | Loc Code |
|---|---|---|
| ST474 | 11 | |
| 62227 | 2 | |
| 62958 | 9 | |

Dart Aerospace Ltd

| W/O: | | WORK ORDER CHANGES | | | | | |
|---|---|---|---|---|---|---|---|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

**Part No:** _____ **PAR #:** _____ **Fault Category:** _____ **NCR:** Yes No **DQA:** _____ **Date:** _____

**Resolution:** _____ **Disposition:** _____ **QA: N/C Closed:** _____ **Date:** _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

**NOTE:** Date & initial all entries

H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

# Picklist Print

*Tuesday, April 19, 2011 12:48:03 PM*

**Work Order ID:** 68640

**Parent Item:** D412-742-013

**Parent Item Name:** Float Skidtube Installation

**Start Date:** 4/19/2011 **Required Date:** 5/20/2011

**Start Qty:** 1.00 **Required Qty:** 1.00

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| D3405-043 | Manufactured | No | 110 | Each | 3.0000 | 1 | 1 | 68343 |
| Lug Assembly | | | | | | | | |

| Location | | Loc Qty | Loc Code |
|---|---|---|---|
| ST423 | | 2 | |
| | 65703 | 2 | |
| ST474 | | 1 | |
| | 62959 | 1 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| AN4C47A | Purchased | No | 110 | Each | 91.0000 | 4 | 4 | JB |
| Bolt | | | | | | | | |

| Location | | Loc Qty | Loc Code |
|---|---|---|---|
| ST361 | | 91 | |
| | 115518 | 6 | |
| | 116003 | 20 | |
| | 116400 | 25 | 116400 |
| | 117163 | 40 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| D3407-041 | Manufactured | No | 110 | Each | 4.0000 | 1 | 1 | 68345 JB 11/06/08 |
| Tow Ring | | | | | | | | |

| Location | | Loc Qty | Loc Code |
|---|---|---|---|
| ST464 | | 4 | |
| | 62960 | 4 | |

Dart Aerospace Ltd

| W/O: | | WORK ORDER CHANGES | | | | | |
|---|---|---|---|---|---|---|---|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

**Part No:** _____ **PAR #:** _____ **Fault Category:** _____ **NCR:** Yes No **DQA:** _____ **Date:** _____

**Resolution:** _____ **Disposition:** _____ **QA: N/C Closed:** _____ **Date:** _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

**NOTE:** Date & initial all entries

H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

# Picklist Print

*Tuesday, April 19, 2011 12:48:03 PM*

**Work Order ID:** 68640

**Parent Item:** D412-742-013

**Parent Item Name:** Float Skidtube Installation

**Start Date:** 4/19/2011 **Required Date:** 5/20/2011

**Start Qty:** 1.00 **Required Qty:** 1.00

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| D3417-3 | Manufactured | No | 110 | Each | 112.0000 | 2 | 2 | JB |
| Washer | | | | | | | | |

| Location | | Loc Qty | Loc Code | |
|---|---|---|---|---|
| FG | | 9 | | |
| | 33519 | 9 | | |
| ST053 | | 103 | | |
| | 44349 | 22 | | 44349 |
| | 51648 | 28 | | |
| | 53182 | 23 | | |
| | 66847 | 30 | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| D3456-1 | Manufactured | No | 110 | Each | 23.0000 | 1 | 1 | 69774 JB |
| Washer | | | | | | | | |

| Location | | Loc Qty | Loc Code |
|---|---|---|---|
| FG | | 7 | |
| | 25701 | 7 | |
| ST054 | | 16 | |
| | 66848 | 16 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| AN3C37A | Purchased | No | 110 | Each | 129.0000 | 1 | 1 | JB 11/06/08 |
| BOLT | | | | | | | | |

| Location | | Loc Qty | Loc Code | |
|---|---|---|---|---|
| ST353 | | 29 | | |
| | 116874 | 11 | | |
| | 117010 | 18 | | |
| ST354 | | 100 | | |
| | 117343 | 100 | | 117343 |

Dart Aerospace Ltd

| W/O: | | WORK ORDER CHANGES | | | | | |
|---|---|---|---|---|---|---|---|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

**Part No:** _____ **PAR #:** _____ **Fault Category:** _____ **NCR:** Yes No **DQA:** _____ **Date:** _____

**Resolution:** _____ **Disposition:** _____ **QA: N/C Closed:** _____ **Date:** _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

**NOTE:** Date & initial all entries

H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

# Picklist Print

*Tuesday, April 19, 2011 12:48:03 PM*

**Work Order ID:** 68640

**Parent Item:** D412-742-013

**Parent Item Name:** Float Skidtube Installation

**Start Date:** 4/19/2011 **Required Date:** 5/20/2011

**Start Qty:** 1.00 **Required Qty:** 1.00

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| AN3C40A<br>BOLT | Purchased | No | 110 | Each | 103.0000 | 1 | 1 | | JB |

| Location | Loc Qty | Loc Code | |
|---|---|---|---|
| ST354 | 103 | | |
| 106176 | 3 | | |
| 112454 | 50 | | 112454 |
| 114442 | 50 | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| AN3C41A<br>BOLT | Purchased | No | 110 | Each | 152.0000 | 1 | 1 | | JB |

| Location | Loc Qty | Loc Code | |
|---|---|---|---|
| FG | 4 | | |
| 103324 | 4 | | |
| ST354 | 148 | | |
| 116381 | 8 | | |
| 117163 | 60 | | 117163 |
| 117407 | 80 | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| AN3C42A<br>BOLT | Purchased | No | 110 | Each | 52.0000 | 1 | 1 | | JB 11/06/08 |

| Location | Loc Qty | Loc Code | |
|---|---|---|---|
| ST354 | 52 | | |
| 106176 | 52 | | 106176 |

Dart Aerospace Ltd

| W/O: | | WORK ORDER CHANGES | | | | | |
|---|---|---|---|---|---|---|---|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

**Part No:** _____ **PAR #:** _____ **Fault Category:** _____ **NCR:** Yes No **DQA:** _____ **Date:** _____

**Resolution:** _____ **Disposition:** _____ **QA: N/C Closed:** _____ **Date:** _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

**NOTE:** Date & initial all entries

H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

# Picklist Print

*Tuesday, April 19, 2011 12:48:03 PM*

**Work Order ID:** 68640

**Parent Item:** D412-742-013

**Parent Item Name:** Float Skidtube Installation

**Start Date:** 4/19/2011 **Required Date:** 5/20/2011

**Start Qty:** 1.00 **Required Qty:** 1.00

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| AN3C43A<br>BOLT | | Purchased | No | 110 | Each | 88.0000 | 4 | 4 | JB |

| Location | | Loc Qty | Loc Code |
|---|---|---|---|
| ST354 | | 88 | |
| | 114433 | 28 | |
| | 114455 | 20 | |
| | 117313 | 40 | 117313 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| AN3C46A<br>BOLT | | Purchased | No | 110 | Each | 62.0000 | 5 | 5 | JB |

| Location | | Loc Qty | Loc Code |
|---|---|---|---|
| FP-B | | 37 | |
| | 113302 | 37 | 113302 |
| ST355 | | 25 | |
| | 115030 | 5 | |
| | 115518 | 20 | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| AN960C10L<br>washer | NAS1149C0332R | Purchased | No | 110 | Each | 0.0000 | 26 | 26 | 117460 JB |
| MS21043-3<br>Nut | | Purchased | No | 110 | Each | 948.0000 | 13 | 13 | JB 11/06/08 |

| Location | | Loc Qty | Loc Code |
|---|---|---|---|
| FG | | 80 | |
| | 103691 | 80 | |
| FP-B | | -5 | |
| | 112314 | -5 | |
| ST301 | | 873 | |
| | 112314 | 873 | 112314 |

Dart Aerospace Ltd

| W/O: | | WORK ORDER CHANGES | | | | | |
|---|---|---|---|---|---|---|---|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

**Part No:** _____ **PAR #:** _____ **Fault Category:** _____ **NCR:** Yes No **DQA:** _____ **Date:** _____

**Resolution:** _____ **Disposition:** _____ **QA: N/C Closed:** _____ **Date:** _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

**NOTE:** Date & initial all entries

H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

## 5.2 D412-742-013 (APICAL TRI-BAG) Float Skidtube Installation Parts List

| Item | Qty -013 | Qty -043 | Part Number | Description |
|---|---|---|---|---|
| | X | | **D412-742-013** | **FLOAT SKIDTUBE INSTALLATION** |
| | 1 | X | **D412-742-043** | **FLOAT SKIDTUBE** |
| | | | | |
| | | 1 | **D3391-043** | **412 FLOAT SKIDTUBE** |
| 1 | | *24 | *AN3C4A | *BOLT |
| 3 | | *12 | *AN3C6A | *BOLT |
| 4 | | *8 | *AN3C7A | *BOLT |
| 5 | | *44 | *AN960C10L | *WASHER |
| 21A | | *1 | *D3564-1 | *WEARSHOE (REPLACES D3460-1) |
| 21B | | *1 | *D3566-1 | *GASKET |
| 22A | | *1 | *D3564-3 | *WEARSHOE (REPLACES D3460-3) |
| 22B | | *1 | *D3566-1 | *GASKET |
| 23A | | *1 | *D3564-5 | *WEARSHOE (REPLACES D2577-5) |
| 23B | | *1 | *D3566-5 | *GASKET |
| | | | | |
| **10** | | ***1** | ***D3391-021** | ***412 FORWARD TUBE** |
| 11 | | **1 | **D3401-041 | **TOW CAP |
| 12A | | **10 | **AELS-1032-225 | **INSERT (REPLACES NAS1330S3KB166) |
| 12B | | **2 | **AELS-1032-130 | **INSERT (REPLACES NAS1330S3KB166) |
| 13 | | **10 | **AN3C4A | **BOLT |
| 14A | | **4 | **D3672-1 | **WASHER (REPLACES NAS1515H3L) |
| 14B | | **10 | **AN960C10L | **WASHER |
| 24A | | **1 | **D3564-13 | **WEARSHOE |
| 24B | | **1 | **D3566-13 | **GASKET |
| | | | | |
| **20** | | ***1** | ***D3391-023** | ***412 MID TUBE** |
| 28 | | **20 | **AELS-1032-130 | **INSERT (REPLACES NAS1330S3KB116) |
| | | | | |
| **30** | | ***1** | ***D3391-025** | ***412 AFT TUBE** |
| 25A | | **1 | *D3537-1 | **WEARPAD |
| 25B | | **1 | *D3553-1 | **GASKET |
| 26A | | **1 | *D3537-7 | **WEARPAD |
| 26B | | **1 | *D3553-3 | **GASKET |
| 31 | | **1 | **D2646 | **AFT CAP |
| 32 | | **14 | **AELS-1032-130 | **INSERT |
| 36 | | **12 | **AELS-1032-225 | **INSERT (REPLACES NAS1330S3KB366) |
| 37A | | **6 | **AN3C4A | **BOLT |
| 37B | | **4 | **AN3C5A | **BOLT |
| 38A | | **2 | **D3672-1 | **WASHER (REPLACES NAS1515H3L) |
| 38B | | **10 | **AN960C10L | **WASHER |

(CONTINUED ON PAGE 19)

• COPYRIGHT © 2005 BY DART AEROSPACE USA, INC •
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.

(CONTINUED FROM PAGE 18)

| Item | Qty -013 | Qty -043 | Part Number | Description |
|---|---|---|---|---|
| 40 | 1 | | D2571 | SADDLE, FWD OUTSIDE |
| 41 | 1 | | D2572 | SADDLE, FWD INSIDE |
| 42 | 1 | | D2573 | SADDLE, AFT OUTSIDE |
| 43 | 1 | | D2574 | SADDLE, AFT INSIDE |
| 44 | 2 | | D2876 | SADDLE SPACER |
| 45 | 2 | | D2877 | SADDLE SPACER |
| 46 | 16 | | D3403-1 | BUSHING |
| 47A | 4 | | D2747 | SET SCREW |
| 47B | 2 | | D3533-1 | SET SCREW |
| 48 | 16 | | AN4C6A | BOLT |
| 49 | 8 | | AN4C52A | BOLT |
| 50 | 8 | | AN6C12A | BOLT |
| 51A | 32 | | D3672-3 | WASHER (REPLACES NAS1515H4L) |
| 51B | 32 | | AN960C416L | WASHER |
| 52A | 18 | | D3672-9 | WASHER (REPLACES NAS1515H6L) |
| 52B | 8 | | AN960C616L | WASHER |
| 53 | 16 | | D3672-11 | WASHER (REPLACES NAS1515H7L) |
| 54 | 24 | | MS21043-4 | NUT |
| 55 | 4 | | ANC47A | BOLT |
| | | | | |
| 60 | 8 | | D3403-3 | BUSHING |
| 61 | 1 | | D3405-041 | GHW LUG |
| 62 | 1 | | D3405-043 | GHW LUG |
| 63 | 4 | | AN4C46A | BOLT |
| 64 | 4 | | MS21043-4 | NUT |
| | | | | |
| 70 | 1 | | D3407-041 | TOW RING |
| 71 | 2 | | D3417-3 | WASHER |
| 72 | 1 | | MS21043-4 | NUT |
| 73 | 1 | | D3456-1 | WASHER |
| | | | | |
| 91 | 1 | | AN3C37A | BOLT |
| 92 | 1 | | AN3C40A | BOLT |
| 93 | 1 | | AN3C41A | BOLT |
| 94 | 1 | | AN3C42A | BOLT |
| 95 | 4 | | AN3C43A | BOLT |
| 97 | 5 | | AN3C46A | BOLT |
| 99 | 26 | | AN960C10L | WASHER |
| 100 | 13 | | MS21043-3 | NUT |

*DENOTES PART IS INCLUDED WITH D3391-043 ASSEMBLY ABOVE
**DENOTES THAT PART IS INCLUDED WITH ASSEMBLY ABOVE

• COPYRIGHT © 2005 BY DART AEROSPACE USA, INC •
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.

# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-742 REV. D AND
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-742 REV. 3.
REF. FAA STC: SR01583SE
REF. CANADIAN STC: SH05-37
REF. EASA STC: EASA.IM.R.S.01126

REFERENCE ONLY

## INSTRUCTIONS:

1) FOR D412-742-011/-013 SKIDTUBES @ CHANGE 006 AND SUBSEQUENT, UPDATE THE PARTS LIST TO MODIFY THE BOLT USED TO ATTACH THE GHW LUG AS FOLLOWS:

**5.1 D412-742-011 (PMA/OEM) Float Skidtube Installation Parts List**
**32.15 D412-742-011 (PMA/OEM) Float Skidtube Installation Parts List**

| ITEM | Qty -011 | Qty -041 | Qty -015 | PART NUMBER | DESCRIPTION |
|---|---|---|---|---|---|
| | X | | | D412-742-011 | FLOAT SKIDTUBE INSTALLATION |
| | 1 | X | | D412-742-041 | FLOAT SKIDTUBE |
| | 1 | | X | D412-742-015 | ELECTRIC STEP KIT |

**IS:**

| | | | | | |
|---|---|---|---|---|---|
| 63 | 4 | | | AN4C47A | BOLT |

**WAS:**

| | | | | | |
|---|---|---|---|---|---|
| 63 | 4 | | | AN4C46A | BOLT |

**5.2 D412-742-013 (APICAL TRI-BAG) Float Skidtube Installation Parts List**
**32.16 D412-742-013 (APICAL TRI-BAG) Float Skidtube Installation Parts List**

| ITEM | Qty -013 | Qty 043 | PART NUMBER | DESCRIPTION |
|---|---|---|---|---|
| | X | | D412-742-013 | FLOAT SKIDTUBE INSTALLATION |
| | 1 | X | D412-742-043 | FLOAT SKIDTUBE |

**IS:**

| | | | | |
|---|---|---|---|---|
| 63 | 4 | | AN4C47A | BOLT |

**WAS:**

| | | | | |
|---|---|---|---|---|
| 63 | 4 | | AN4C46A | BOLT |

| REV. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| A | NEW ISSUE | AJS | 08.12.19 |

| | | | |
|---|---|---|---|
| DESIGN | AJS | DART AEROSPACE USA, INC<br>PORT HADLOCK, WA | |
| DRAWN | AJS | | |
| CHECKED | | DRAWING NO. | REV. A |
| MFG. APPR. | N/A | DSI 9441 | SHEET 1 OF 1 |
| APPROVED | | TITLE | SCALE |
| DE APPR. | | BOLT CHANGE | NTS |
| DATE | 08.12.19 | | |

COPYRIGHT © 2008 BY DART AEROSPACE USA, INC
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.